Faculty: Dr. Rice; Office: Room 320; Email: jrice@rci.rutgers.edu

Schedule: Monday, Wednesday, 8:15 -9:35 AM, PH 323A

Required Textbooks

Suggested Supplementary Textbook

Grading: Exams (3) will be worth 90% of your grade with attendance, punctuality, preparedness and class participation counting for the remaining 10% of your grade.

Topics:
- Retro-Synthetic Analysis
- Strategies for Aromatic Compounds
- Protecting Groups
- Polarity Reversal (Umpolung) and Synthetic Equivalents
- Template and Chelation Effects
- Asymmetric Synthesis
- Photochemistry
- Synthesis under Extreme Conditions
- Synthesis using Solid Supports
- Instructive Examples of Synthesis Planning and Execution

Learning Goals: This course is intended for graduate students that have completed a basic course in synthetic organic chemistry. The student will learn a variety of methods to evaluate the structure of a target molecule, complete a thorough retro-synthetic analysis of that structure, and decide upon strategies for its efficient synthesis. The student will also gain an appreciation for a variety of tactics that can be brought to bear to achieve the synthesis of the targeted compound.

Supplemental Reading